

Title (en)
METHOD FOR THE PRODUCTION OF A REINFORCED THERMOPLASTIC CONTAINER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES VERSTÄRKTEN THERMOPLASTISCHEN BEHÄLTERS

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN RÉCIPIENT THERMOPLASTIQUE RENFORCÉ

Publication
EP 4067054 A1 20221005 (EN)

Application
EP 22159539 A 20220301

Priority
GB 202104726 A 20210401

Abstract (en)
An internally reinforced thermoplastic container (12) has a body manufactured using rotational moulding. Prior to moulding, a number of attachment elements (18a, 18b, 18c, 18d) are releasably attached to the interior surface (28) of parts (26a, 26b) of a mould (24) and an initially separate tension member (20) is connected between the attachment elements (18). The mould (24) is closed and a body of the container (12) moulded such that the attachment elements (18) are integrated into the walls of the body. After moulding, the attachment elements (18) are released from the mould (24). The attachment elements (18) and the tension member (20) define a tension structure to resist outward bulging of the container walls. The tension member (20) may be tensioned prior to or after moulding of the container body. The attachment elements (18) may take the form of eyelets having a base (19b, Fig. 7) which is incorporated into the wall of the container body. The method enables the formation of a hollow thermoplastic container with integrally formed internal reinforcement.

IPC 8 full level
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Citation (applicant)
• EP 1493961 A2 20050105 - BENTELER AUTOMOBILTECHNIK GMBH [DE]
• US 2015232226 A1 20150820 - HEIDEMEYER TIMM [DE], et al
• GB 561819 A 19440606 - ALLEN NEIL FABRIC GAS CONTAINER, et al

Citation (search report)
[XAI] FR 2919581 A1 20090206 - POLYTECH SOC PAR ACTIONS SIMPL [FR]

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